

Title (en)

COMBINING IPSC-DERIVED EFFECTOR CELL TYPES FOR IMMUNOTHERAPY USE

Title (de)

KOMBINATION VON IPSC-ABGELEITETEN EFFEKTORZELLTYPEN ZUR IMMUNTHERAPIEVERWENDUNG

Title (fr)

COMBINAISON DE TYPES DE CELLULES EFFECTRICES DÉRIVÉES DES IPSC POUR LEUR UTILISATION EN IMMUNOTHÉRAPIE

Publication

EP 4168538 A1 20230426 (EN)

Application

EP 21824823 A 20210618

Priority

- US 202063041672 P 20200619
- US 2021038134 W 20210618

Abstract (en)

[origin: WO2021258016A1] Provided are methods and compositions for obtaining functionally enhanced derivative effector cells obtained from directed differentiation of genomically engineered iPSCs. The derivative cells provided herein have stable and functional genome editing that delivers improved or enhanced therapeutic effects. Also provided are therapeutic compositions and the use thereof comprising the functionally enhanced derivative effector cells alone, or with antibodies or checkpoint inhibitors or additional cells in combination therapies.

IPC 8 full level

C12N 5/0783 (2010.01); **A61K 35/17** (2015.01); **A61K 39/395** (2006.01); **A61K 45/06** (2006.01); **A61P 35/00** (2006.01); **C07K 14/54** (2006.01); **C07K 14/705** (2006.01); **C07K 14/735** (2006.01)

CPC (source: EP IL US)

A61K 39/3955 (2013.01 - EP IL); **A61K 39/4611** (2023.05 - EP IL); **A61K 39/4613** (2023.05 - EP IL); **A61K 39/4631** (2023.05 - EP IL); **A61K 39/4635** (2023.05 - EP); **A61K 39/4637** (2023.05 - EP); **A61K 39/464412** (2023.05 - EP IL); **A61K 45/06** (2013.01 - EP IL); **A61P 35/00** (2018.01 - EP IL US); **C07K 14/5443** (2013.01 - EP IL); **C07K 14/7051** (2013.01 - EP IL); **C07K 14/70535** (2013.01 - EP IL US); **C07K 14/7155** (2013.01 - EP IL US); **C07K 16/2827** (2013.01 - EP IL); **C07K 16/283** (2013.01 - EP IL); **C07K 16/2887** (2013.01 - EP IL); **C12N 5/0636** (2013.01 - US); **C12N 5/0646** (2013.01 - EP IL US); **A61K 2239/26** (2023.05 - EP); **A61K 2239/30** (2023.05 - EP); **A61K 2239/31** (2023.05 - EP IL); **A61K 2239/38** (2023.05 - EP IL); **A61K 2239/48** (2023.05 - EP IL); **A61K 2300/00** (2013.01 - IL); **C07K 2317/622** (2013.01 - EP IL); **C07K 2317/732** (2013.01 - EP IL); **C07K 2319/02** (2013.01 - US); **C07K 2319/03** (2013.01 - EP IL US); **C12N 2506/11** (2013.01 - EP IL); **C12N 2506/45** (2013.01 - EP IL US)

C-Set (source: EP)

A61K 39/3955 + A61K 2300/00

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021258016 A1 20211223; AU 2021292695 A1 20230202; BR 112022025806 A2 20230307; CA 3182852 A1 20211223; CN 116096386 A 20230509; EP 4168538 A1 20230426; EP 4168538 A4 20240320; IL 299106 A 20230201; JP 2023530704 A 20230719; KR 20230040337 A 20230322; MX 2022015863 A 20230323; US 2023235287 A1 20230727

DOCDB simple family (application)

US 2021038134 W 20210618; AU 2021292695 A 20210618; BR 112022025806 A 20210618; CA 3182852 A 20210618; CN 202180055596 A 20210618; EP 21824823 A 20210618; IL 29910622 A 20221214; JP 2022577426 A 20210618; KR 20237001980 A 20210618; MX 2022015863 A 20210618; US 202118002248 A 20210618